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NOTICE OF ALLOWANCE AND FEE(S) DUE

23460

7590

03/04/2004

LEYDIG VOIT & MAYER, LTD TWO PRUDENTIAL PLAZA, SUITE 4900 180 NORTH STETSON AVENUE CHICAGO, IL 60601-6780 EXAMINER

KALIVODA, CHRISTOPHER M

ART UNIT PAPER NUMBER

2881 DATE MAILED: 03/04/2004

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,280	05/13/2002	Frank Henry Read	214764	6077

TITLE OF INVENTION: ELECTRICALLY-CHARGED PARTICLE ENERGY ANALYSERS

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$0	\$1330	06/04/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. PROSECUTION ON THE MERITS IS CLOSED. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status is changed, pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above and notify the United States Patent and Trademark Office of the change in status, or

If the SMALL ENTITY is shown as NO:

- A. Pay TOTAL FEE(S) DUE shown above, or
- B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check the box below and enclose the PUBLICATION FEE and 1/2 the ISSUE FEE shown above.
- ☐ Applicant claims SMALL ENTITY status. See 37 CFR 1.27.
- II. PART B FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.
- III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.

PART B - FEE(S) TRANSMITTAL

Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

			or <u>Fax</u>	(703) 746-4000		
appropriate. All further con	espondence including the left elow or directed otherwise	Patent, advance or	ders and notification	of maintenance fees	uired). Blocks 1 through 4 s will be mailed to the current ss; and/or (b) indicating a sepa	correspondence address a
CURRENT CORRESPONDENCE ADDRESS (Note: Legibly mark-up with any corrections or use Block 1)			Note: A certificate of mailing can only be used for domestic mailings of th Fee(s) Transmittal. This certificate cannot be used for any other accompanying			
			papers. Each additio	nal paper, such as an assignme	ent or formal drawing, mus	
23460 75				•	ate of mailing or transmission.	
LEYDIG VOIT & TWO PRUDENTIA 180 NORTH STET CHICAGO, IL 606	AL PLAZA, SUITE 49 SON AVENUE	000		I hereby certify that States Postal Service addressed to the M	ertificate of Mailing or Trans this Fee(s) Transmittal is bein e with sufficient postage for fir ail Stop ISSUE FEE address SPTO, on the date indicated bel	g deposited with the Unite st class mail in an envelop above, or being facsimil
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						(Signature
						(Date
APPLICATION NO.	FILING DATE		FIRST NAMED INVE	NTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,280	05/13/2002		Frank Henry Re	ad	214764	6077
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nonprovisional	NO	\$1330)	\$0	\$1330	06/04/2004
EXAM	INER	ART UN	IT C	CLASS-SUBCLASS		
KALIVODA, CH	RISTOPHER M	2881		250-305000	_	
Address form PTO/SB/12 "Fee Address" indication PTO/SB/47; Rev 03-02 of	nce address (or Change of C	Correspondence	names of up to agents OR, alter firm (having as agent) and the n	n the patent front page 3 registered patent natively, (2) the name a member a registered ames of up to 2 regions. If no name is list	attorneys or 1e of a single d attorney or 2stered patent	
Number is required.			·		·	
3. ASSIGNEE NAME AND PLEASE NOTE: Unless been previously submitter (A) NAME OF ASSIGNI	an assignee is identified be to the USPTO or is being	low, no assignee d submitted under se	ata will appear on the parate cover. Complete	e patent. Inclusion of	assignee data is only appropri OT a substitute for filing an ass OUNTRY)	ate when an assignment ha ignment.
Please check the appropriate	assignee category or catego	ries (will not be pr	inted on the patent);	□ individual □	corporation or other private gr	roup entity
4a. The following fee(s) are	enclosed:	4b	. Payment of Fee(s):			
☐ Issue Fee				nount of the fee(s) is e		
☐ Publication Fee ☐ Advance Order - # of (Copies		•	it card. Form PTO-203 hereby authorized by	8 is attached. charge the required fee(s), or	credit any overpayment, t
Director for Patents is reques	ted to apply the Issue Fee a	nd Publication Fee	Deposit Account N	umber	issue fee to the application ide	copy of this form).
			(ii aiiy) or to re-app	y any previously paid	assue ice to the application fue	antified above.
(Authorized Signature)		(Date)				
NOTE; The Issue Fee and other than the applicant; a interest as shown by the rec	Publication Fee (if require registered attorney or agords of the United States Pa	ed) will not be ac ent; or the assigna- atent and Trademar	cepted from anyone ee or other party in k Office.			
This collection of informat obtain or retain a benefit the application. Confidentiality estimated to take 12 minut completed application for case. Any comments on suggestions for reducing the Patent and Trademark C 22313-1450. DO NOT S SEND TO: Commissioner	ion is required by 37 CFR by the public which is to fi is governed by 35 U.S.C. I set to complete, including gent to the USPTO. Time with the amount of time you had be sent office, U.S. Department END FEES OR COMPLE for Patents, Alexandria, Viriance of the public of t	1.311. The informile (and by the US 22 and 37 CFR 1.1 athering, preparing II vary depending require to comple to the Chief Inform of Commerce, A TED FORMS TO ginia 22313-1450.	nation is required to PTO to process) and 14. This collection is i, and submitting the upon the individual te this form and/or mation Officer, U.S. lexandria, Virginia D THIS ADDRESS.			

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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/009,280	05/13/2002	Frank Henry Read	214764	6077
23460 7	590 03/04/2004		EXAM	INER
	& MAYER, LTD IAL PLAZA, SUITE 49	KALIVODA, CHRISTOPHER M		
180 NORTH STE	-		ART UNIT	PAPER NUMBER
CHICAGO, IL 60	601-6780		2881	

DATE MAILED: 03/04/2004

Determination of Patent Term Extension under 35 U.S.C. 154 (b)

(application filed after June 7, 1995 but prior to May 29, 2000)

The Patent Term Extension is 0 day(s). Any patent to issue from the above-identified application will include an indication of the 0 day extension on the front page.

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Extension is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) system (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

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	Application No.	Applicant(s)	•			
Notice of Allowability	10/009,280	READ, FRANK HE	NRY			
Notice of Allowability	Examiner	Art Unit				
	Christopher M. Kalivoda	2881				
The MAILING DATE of this communication appeal claims being allowable, PROSECUTION ON THE MERITS IS herewith (or previously mailed), a Notice of Allowance (PTOL-85) NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT Rof the Office or upon petition by the applicant. See 37 CFR 1.313	(OR REMAINS) CLOSED in this apply or other appropriate communication (IGHTS. This application is subject to	olication. If not include will be mailed in due	ed course. THIS			
1. $igtieq$ This communication is responsive to $Amenedment$ receive	ed December 8, 2003.					
2. X The allowed claim(s) is/are <u>1-60</u> .						
3. $igotimes$ The drawings filed on <u>05/13/2002</u> are accepted by the Exa	aminer.					
 4. Acknowledgment is made of a claim for foreign priority unally All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have International Bureau (PCT Rule 17.2(a)). 	e been received. e been received in Application No		tion from the			
* Certified copies not received:						
Applicant has THREE MONTHS FROM THE "MAILING DATE" noted below. Failure to timely comply will result in ABANDONN THIS THREE-MONTH PERIOD IS NOT EXTENDABLE. 5. A SUBSTITUTE OATH OR DECLARATION must be subminformal patent Application (PTO-152) which give	MENT of this application. nitted. Note the attached EXAMINER	'S AMENDMENT or N				
_		ation is delicient.				
 CORRECTED DRAWINGS (as "replacement sheets") mu (a) ☐ including changes required by the Notice of Draftsper 		QAR) attached				
(a) ☐ including changes required by the Notice of Dransper 1) ☐ hereto or 2) ☐ to Paper No./Mail Date		940) attached				
1) ☐ nereto or 2) ☐ to Paper No./Mail Date (b) ☐ including changes required by the attached Examiner's Amendment / Comment or in the Office action of Paper No./Mail Date						
Identifying indicia such as the application number (see 37 CFR teach sheet. Replacement sheet(s) should be labeled as such in	1.84(c)) should be written on the drawi the header according to 37 CFR 1.121(ngs in the front (not the d).	back) of			
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
	↓					
Attachment(s)			2.450			
1. Notice of References Cited (PTO-892)	5. Notice of Informal F	• • • • • • • • • • • • • • • • • • • •	J-152)			
2. Notice of Draftperson's Patent Drawing Review (PTO-948)	6. ☐ Interview Summary Paper No./Mail Da 08), 7. ☐ Examiner's Amendo					
 Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 12/08/2003 	_					
4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	8. ⊠ Examiner's Statemo	ent of Reasons for Allo	owance			

REASONS FOR ALLOWANCE

The following is an examiner's statement of reasons for allowance: The Applicant filed an amendment received on December 8, 2003. In this amendment, Applicant amended the claims and specification. No new matter was introduced.

With respect to the specification, the changes are approved and the previous objection is withdrawn.

With respect to the claims, the changes are approved and the previous objections and rejections are withdrawn.

Regarding independent claim 1, a review of prior art failed to disclose or make obvious a charged particle energy analyzer arranged to analyze charged particles having a range of energies comprising an electrostatic focusing field defined by equipotentials which extend about an axis and which vary substantially linearly in the direction of said axis and which vary substantially logarithmically in the radial direction orthogonal to said axis whereby charged particles having different energies are brought to a focus by the electrostatic focusing field at different discrete positions on a surface of the detection means.

Claims 2-60 are allowed by virtue of their dependence upon claim 1 or claims that depend upon claim 1.

Art Unit: 2881

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Conclusion

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. U.S. Patent 3,642,214 to Helmer et al. describes an energy analyzer with electrostatic focusing means, a charged particle source, and detection means. However, the reference is silent with respect to an electrostatic focusing field defined by equipotentials which extend about an axis and which vary substantially linearly in the direction of said axis and which vary substantially logarithmically in the radial direction orthogonal to said axis whereby charged particles having different energies are brought to a focus by the electrostatic focusing field at different discrete positions on a surface of the detection means.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Christopher M. Kalivoda whose telephone number is (571) 272-2476. The examiner can normally be reached on Monday - Friday (8:30 - 5:00).

Welly 02/24/04

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, John R. Lee can be reached on (571) 272-2477. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Chris Kalurch. Christopher M. Kalivoda

AU 2881

24 February 2004

NIKITA WELLS PRIMARY EXAMINER